



PCT09

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/856,114A

DATE: 02/26/2002

TIME: 13:54:25

Input Set : A:\SEQLIST.txt

Output Set: N:\CRF3\02262002\I856114A.raw

4 <110> APPLICANT: Hyo Jeong Hong
5 Chun Jeih Ryu
6 Hangsook Hur
8 <120> TITLE OF INVENTION: HUMANIZED ANTIBODY SPECIFIC FOR SURFACE
9 ANTIGEN PRE-S1 OF HBV AND PREPARATION METHOD THEREOF
12 <130> FILE REFERENCE: 118.13USWO
C- 14 <140> CURRENT APPLICATION NUMBER: US/09/856,114A
C- 14 <141> CURRENT FILING DATE: 2001-05-18
14 <150> PRIOR APPLICATION NUMBER: PCT/KR99/00699
15 <151> PRIOR FILING DATE: 1999-11-19
17 <150> PRIOR APPLICATION NUMBER: 1998-49663
18 <151> PRIOR FILING DATE: 1998-11-19
20 <160> NUMBER OF SEQ ID NOS: 28
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25 <211> LENGTH: 26
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 1
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35 <210> SEQ ID NO: 2
36 <211> LENGTH: 27
37 <212> TYPE: DNA
38 <213> ORGANISM: Artificial Sequence
40 <220> FEATURE:
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48 <212> TYPE: DNA
49 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 3
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57 <210> SEQ ID NO: 4
58 <211> LENGTH: 27
59 <212> TYPE: DNA
60 <213> ORGANISM: Artificial Sequence
62 <220> FEATURE:

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63 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 4
65 <400> SEQUENCE: 4
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70 <212> TYPE: DNA
71 <213> ORGANISM: Artificial Sequence
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76 <400> SEQUENCE: 5
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79 <210> SEQ ID NO: 6
80 <211> LENGTH: 27
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 6
87 <400> SEQUENCE: 6
88 aatccgtcca atccactcaa gaccctg 27
90 <210> SEQ ID NO: 7
91 <211> LENGTH: 21
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 7
98 <400> SEQUENCE: 7
99 tggattggac ggatttatcc t 21
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102 <211> LENGTH: 39
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 8
109 <400> SEQUENCE: 8
110 ggatttgtct gcagtcagtg tggccttgcc ctggaactt 39
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113 <211> LENGTH: 39
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 9
120 <400> SEQUENCE: 9
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126 <213> ORGANISM: Artificial Sequence
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148 <213> ORGANISM: Artificial Sequence
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153 <400> SEQUENCE: 12
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168 <211> LENGTH: 36
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175 <400> SEQUENCE: 14
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183 <220> FEATURE:
184 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 15
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190 <211> LENGTH: 39
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 16
197 <400> SEQUENCE: 16

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205 <220> FEATURE:
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213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
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217 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 18
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225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Variable region of heavy chain in mouse KR127
229 antibody
231 <400> SEQUENCE: 19
232 Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
233 1 5 10 15
234 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
235 20 25 30
236 Trp Met Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
237 35 40 45
238 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe
239 50 55 60
240 Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
241 65 70 75 80
242 Met Gln Leu Ser Ser Leu Thr Ser Val Asp Ser Ala Val Tyr Phe Cys
243 85 90 95
244 Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
245 100 105 110
246 Val Ser Ala
247 115
249 <210> SEQ ID NO: 20
250 <211> LENGTH: 115
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Variable region of humanized heavy chain
256 HKR127HC(HZI)
258 <400> SEQUENCE: 20

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259 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Val Lys Pro Gly Ala
260 1 5 10 15
261 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
262 20 25 30
263 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
264 35 40 45
265 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe
266 50 55 60
267 Gln Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
268 65 70 75 80
269 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
270 85 90 95
271 Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
272 100 105 110

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273 Val Ser Ser

274 115

276 <210> SEQ ID NO: 21

277 <211> LENGTH: 115

278 <212> TYPE: PRT

279 <213> ORGANISM: Artificial Sequence

281 <220> FEATURE:

282 <223> OTHER INFORMATION: Variable region of humanized heavy chain

283 HKR127HC(HZIII)

285 <400> SEQUENCE: 21

286 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

287 1 5 10 15

288 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Ser

289 20 25 30

290 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

291 35 40 45

292 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe

293 50 55 60

294 Gln Gly Arg Val Thr Met Thr Ala Asp Lys Ser Thr Ser Thr Val Tyr

295 65 70 75 80

296 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

297 85 90 95

298 Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr

299 100 105 110

300 Val Ser Ser

301 115

303 <210> SEQ ID NO: 22

304 <211> LENGTH: 113

305 <212> TYPE: PRT

306 <213> ORGANISM: Artificial Sequence

308 <220> FEATURE:

309 <223> OTHER INFORMATION: Variable region of light chain in mouse KR127

310 antibody

312 <400> SEQUENCE: 22

313 Asp Ile Leu Met Thr Gln Thr Pro Leu Ile Leu Ser Val Thr Ile Gly

VERIFICATION SUMMARY

DATE: 02/26/2002

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TIME: 13:54:26

Input Set : A:\SEQLIST.txt

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L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date